



# GROWING PLANTS & BUILDING GARDENS

Be prepared for success, take **TECH.**





# CHALLENGE 1

Learn about plants and how they grow by placing vegetables into three categories: Tops, Bottoms and Middles depending how they grow.





# CHALLENGE 2

Make your own  
colour-changing  
flowers.





# CHALLENGE 3

Recycle paper and  
make your own  
seed bombs.





# CHALLENGE 4

Make your own  
greenhouse.  
Use egg cartons  
and clear bags.





## CHALLENGE 5

Start your own seeds. No need to purchase starting kits. Use paper towel rolls or toilet paper rolls to make containers.





## CHALLENGE 6

Have you ever wondered if a new plant can grow from the fruit and vegetable seeds we throw out? Grow a plant from kitchen food scraps. Test your soil. What does it need?





# CHALLENGE 7

All gardens need pollinators like birds, bees and butterflies. Build a feeder to attract them to your garden using recycled material.





# CHALLENGE 8

Build a mini ecosystem.  
Start with recycled 2 litre  
soda containers, coffee  
filters etc.





# CHALLENGE 9

Learn about the importance of decomposition by creating a decomposition observation bag.





# CHALLENGE 10

Design a classroom hydroponic garden.  
Can plants really grow without soil?





# CHALLENGE 11

Design a pollinating garden using the land in your schoolyard. Test the soils in your land? What do the results tell you.





# CHALLENGE 12

Build a container for a Macrophyte plant (a plant that grows near or in water and is submerged, emergent or floating).  
Frogs love lily pads!





# CHALLENGE 13

What vegetables can you put in the ground that will regrow?





# CHALLENGE 14

What type of upcycled container can you use that would work well to grow seeds?





# CHALLENGE 15

Plant at least three different vegetables in one container. Research which vegetables grow well together and which ones do not grow well together.

